Looking at Training Differently.....

M6425a Configuring and Troubleshooting Windows Server 2008 Active Directory Domain Services

Course 6425A: Five days; Instructor-Led

Introduction

This five-day instructor-led course provides to teach Active Directory Technology Specialists with the knowledge and skills to configure Active Directory Domain Services in a distributed environment, implement Group Policies, perform backup and restore, and monitor and troubleshoot Active Directory related issues.

Audience

The primary audience for this course are AD Technology Specialists, Server Administrators, and Enterprise Administrators who want to learn how to implement AD in a distributed environment, secure domains using Group Policies, and perform backup, restore, and monitor and troubleshoot AD configuration to ensure trouble free operation.

Prerequisites

Before attending this course, students must have:

•Basic understanding of networking.
•Intermediate understanding of network operating systems.
•An awareness of security best practices.
•Basic knowledge of server hardware. A+ or equivalent knowledge
•Some experience creating objects in Active Directory.
•Foundation course (6424A) or equivalent knowledge.
•Basic concepts of backup and recovery in a Windows Server Environment.

At Course Completion

After completing this course, students will be able to implement and configure Active Directory domain services in their enterprise environment.

Course Outline

Module 1: Implementing Active Directory Domain Services

This module explains how to install and configure Active Directory Domain Services and install and configure a read-only domain controller.

Lessons

•Installing Active Directory Domain Services
•Deploying Read-Only Domain Controllers
•Configuring AD DS Domain Controller Roles

Lab: Implementing Read-Only Domain Controllers

•Exercise 1: Evaluating Forest and Server Readiness for Installing an RODC
•Exercise 2: Installing and Configuring an RODC
•Exercise 3: Configuring AD DS Domain Controller Roles

After completing this module, students will be able to:

•Install Active Directory Domain Services.
•Deploy Read-Only Domain Controllers.
•Configure AD DS Domain Controller

Roles.

Module 2: Configuring Domain Name Service for Active Directory Domain Services

This module explains how to configure Domain Name Services (DNS) for Active Directory Domain Services.

Lessons

•Overview of Active Directory Domain Services and DNS Integration
•Configuring Active Directory Integrated Zones
•Configuring Read Only DNS Zones

Lab: Configuring AD DS and DNS Integration

•Exercise 1: Configuring Active Directory Integrated Zones
•Exercise 2: Configuring Read-Only DNS Zones

After completing this module, students will be able to:

•Describe Active Directory Domain Services and DNS integration.
•Configure Active Directory Integrated Zones.
•Configure read only DNS zones.

Module 3: Configuring Active Directory Objects and Trusts

This module explains how to configure Active Directory Objects and Trusts.

Lessons

•Configuring Active Directory Objects
•Strategies for Using Groups
•Automating AD DS Object Management
•Delegating Administrative Access to AD DS Objects
•Configuring AD DS Trusts

Lab A: Configuring Active Directory Objects

•Exercise 1: Configuring AD DS Objects
•Exercise 2: Implementing an AD DS Group Strategy
•Exercise 3: Automating the Management of AD DS Objects

Lab B: Configuring Active Directory Objects and Trusts

•Exercise 1: Delegating Control of AD DS Objects
•Exercise 2: Configuring AD DS Trusts

After completing this module, students will be able to:

•Configure Active Directory Objects.
•Describe strategies for using groups.
•Automate AD DS object management.
•Delegate Administrative access to AD DS objects.
•Configure AD DS trusts.

Module 4: Configuring Active Directory Sites and Replication

This module explains how to configure Active Directory sites and replication.

Lessons

•Overview of AD DS Replication

•Overview of AD DS Sites and Replication
•Configuring and Monitoring AD DS Replication

Lab: Configuring Active Directory Sites and Replication

•Exercise 1: Configuring AD DS Sites and Subnets
•Exercise 2: Configuring AD DS Replication
•Exercise 3: Monitoring AD DS Replication

After completing this module, students will be able to:

•Describe AD DS replication.
•Configure Active Directory Domain Services sites.
•Configure and monitor AD DS replication.

Module 5: Creating and Configuring Group Policy

This module explains how to create and configure Group Policy.

Lessons

•Overview of Group Policy
•Configuring the Scope of Group Policy Objects
•Evaluating the Application of Group Policy Objects
•Managing Group Policy Objects
•Delegating Administrative Control of Group Policy

Lab: Creating and Configuring GPOs

•Exercise 1: Creating Group Policy Objects
•Exercise 2: Managing the Scope of GPO Application
•Exercise 3: Verifying GPO Application
•Exercise 4: Managing GPOs
•Exercise 5: Delegating Administrative Control of GPOs

After completing this module, students will be able to:

•Describe Group Policy.
•Configure the scope of Group Policy objects.
•Evaluate the application of Group Policy objects.
•Manage Group Policy objects.
•Delegate administrative control of Group Policies.

Module 6: Configuring User Environments Using Group Policy

This module explains how to configure user environments using Group Policy.

Lessons

•Configuring Group Policy Settings
•Configuring Scripts and Folder Redirection Using Group Policies
•Configuring Administrative Templates
•Group Policy Preferences
•Deploying Software Using Group Policy

Lab Configuring User Environments Using Group Policies

•Exercise 1: Configuring Scripts and Folder Redirection

•Exercise 2: Configuring Administrative Templates
•Exercise 3: Configuring Preferences
•Exercise 4: Verifying GPO Application

After completing this module, students will be able to:

•Configure Group Policy settings.
•Configure scripts and folder redirection using Group Policy.
•Configure administrative templates.
•Describe Group Policy preferences.
•Deploy software using Group Policy.

Module 7: Implementing Security Using Group Policy

This module explains how to implement security using Group Policy.

Lessons

•Configuring Security Policies
•Implementing Fine-Grained Password Policies
•Restricting Group Membership and Access to Software
•Managing Security Using Security Templates

Lab: Implementing Security Using Group Policies

•Exercise 1: Configuring Account and Security Policy Settings
•Exercise 2: Implementing Fine-Grained Password Policies
•Exercise 3: Configuring Restricted Groups and Software Restriction Policies
•Exercise 4: Configuring Security Templates
•Exercise 5: Verifying the Security Configuration

After completing this module, students will be able to:

•Configure security settings.
•Implement fine-grained password policies.
•Restrict group membership and access to software.
•Manage security using security templates.

Module 8: Implementing an Active Directory Domain Services Monitoring Plan

This module explains how to implement Active Directory Domain Services monitoring plan.

Lessons

•Monitoring AD DS Using Event Viewer
•Monitoring Active Directory Domain Servers Using Reliability and Performance Monitor
•Configuring AD DS Auditing

Lab: Monitoring Active Directory Domain Services

•Exercise 1: Monitoring AD DS Using Event Viewer
•Exercise 2: Monitoring AD DS Using Performance and Reliability Monitor
•Exercise 3: Configuring AD DS Auditing

After completing this module, students will be able to:

•Monitor Active Directory Domain Services using Event Viewer.
•Monitor Active Directory Domain servers using reliability and performance monitor.
•Configure Active Directory Domain Services Auditing.

Module 9: Implementing an Active Directory Domain Services Maintenance Plan

This module explains how to implement an Active Directory Domain Services maintenance plan.

Lessons

•Maintaining the AD DS Domain Controllers
•Backing Up Active Directory Domain Services
•Restoring Active Directory Domain Services

Lab: Implementing an Active Directory Domain Services Maintenance Plan

•Exercise 1: Maintaining AD DS Domain Controllers
•Exercise 2: Backing Up AD DS
•Exercise 3: Performing an Authoritative Restore of the AD DS Database
•Exercise 4: Restoring Data Using the AD DS Snapshot Viewer

After completing this module, students will be able to:

•Maintain the AD DS Domain Controllers.
•Back up the Active Directory Domain Services.
•Restore the Active Directory Domain Services.

Module 10: Troubleshooting Active Directory, DNS, and Replication Issues

This module explains how to troubleshoot Active Directory Domain Services, Domain Name Service, and Active Directory replication.

Lessons

•Troubleshooting Active Directory Domain Services
•Troubleshooting DNS Integration with AD DS
•Troubleshooting AD DS Replication

Lab: Troubleshooting Active Directory, DNS, and Replication Issues

•Exercise 1: Troubleshooting Authentication and Authorization Errors
•Exercise 2: Troubleshooting the Integration of DNS and AD DS
•Exercise 3: Troubleshooting AD DS Replication

After completing this module, students will be able to:

•Troubleshoot Active Directory Domain Services.
•Troubleshoot DNS integration with AD DS.
•Troubleshoot AD DS replication.

Module 11: Troubleshooting Group Policy Issues

This module explains how to troubleshoot the application of Group Policy objects.

Lessons

•Introduction to Group Policy Troubleshooting
•Troubleshooting Group Policy Application
•Troubleshooting Group Policy Settings

Lab: Troubleshooting Group Policy Issues

•Exercise 1: Troubleshooting Group Policy

Scripts
•Exercise 2: Troubleshooting GPO Lab11B
•Exercise 3: Troubleshooting GPO Lab11C
•Exercise 4: Troubleshooting GPO Lab11D

After completing this module, students will be able to:

•Describe Group Policy troubleshooting.
•Troubleshoot Group Policy application.
•Troubleshoot Group Policy Settings.

Module 12: Implementing an Active Directory Domain Services Infrastructure

This module explains how to implement an Active Directory Domain Services Infrastructure.

Lessons

•Overview of the AD DS Deployment
•Planning a Group Policy Strategy

Lab A: Deploying Active Directory Domain Services

•Exercise 1: Installing a Read-only Domain Controller (RODC) onto a Server Core, and Creating a Branch Office Site
•Exercise 2: Creating a Domain in a Separate Tree and Separate Site

Lab B: Configuring Forest Trust Relationships

•Exercise: Upgrading the Fabrikam Domain, and Creating a Forest Trust with Woodgrove Bank

Lab C: Planning a Group Policy Strategy

•Exercise 1: Planning Group Policy
•Exercise 2: Creating a Domain in a Separate Tree and Separate Site
•Exercise 3: Implementing the Corporate Desktop Policy

After completing this module, students will be able to:

•Implement an Active Directory Domain Services infrastructure.